

## ABSTRACT

To make possible high density recording by making the structure of the  
5 perpendicular magnetic recording layer finer. A perpendicular magnetic recording  
medium 10 includes at least a nonmagnetic under layer 2, a perpendicular magnetic layer  
3, and a protective layer which are stacked on a nonmagnetic substrate 1, wherein the  
perpendicular magnetic layer includes ferromagnetic crystal grains and nonmagnetic  
crystal grain boundary regions, wherein the crystal grain boundary region includes at  
10 least two kinds of oxide.